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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 068911-0173	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US 06/47196	International filing date (day/month/year) 11 December 2006 (11.12.2006)	(Earliest) Priority Date (day/month/year) 09 December 2005 (09.12.2005)	
Applicant Metaproteomics, LLC			

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed.
☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. ☐ This international search report has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (see Box No. II).

3. ☐ Unity of invention is lacking (see Box No. III).

4. With regard to the title,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. _____
☐ as suggested by the applicant.
☐ as selected by this Authority, because the applicant failed to suggest a figure.
☐ as selected by this Authority, because this figure better characterizes the invention.
- b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/47196

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61K 38/43; A61K 36/00 (2007.10)

USPC - 424/94.1; 424/725; 424/778

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - A61K 38/43 (2007.10)

USPC - 424/94.1, 424/725, 424/778

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

IPC(8) - A61K 38/43; A61K 36/00 (2007.10)

USPC - 424/94.1, 725, 778, 779, 775

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWest, DialogPRO, Google Patent, Google Scholar, PubMed/Medline, WIPO

Search Terms Used: , kinase, kinase activity, hops, Acacia, cox\$, modulate, and combinations thereof.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2003/0180402 A1 (Jia et al.) 25 September 2003 (25.09.2003). Entirety. Esp., abstract, para [0014], [0023], [0032], [0062], [0072], [0078].	1-2, 10-13, 17-18, 26-29 3-9, 14-16, 19-25, 30-34
Y	US 2005/0129791 A1 (Babish et al.) 16 June 2005 (16.06.2005). Esp., abstract, para [0019], [0060], [0119], [0120].	8,15,24,31,33-34
Y	US 2004/0115290 A1 (Tripp et al.) 17 June 2004 (17.06.2004). Esp., abstract, para [0061], [0062], [0063], [0066].	4-7, 20-23
Y	US 2005/0192356 A1 (Babish et al.) 1 September 2005 (01.09.2005). Esp., abstract, para [0016], [0017], [0080].	16,32
Y	US 2005/0042317 A1 (Babish et al.) 24 February 2005 (24.02.2005). Esp., abstract, para [0040].	14,30
Y	Ward et al., "Therapeutic Potential of Phosphoinositide 3-Kinase Inhibitors", Chemistry & Biology (March 2003) vol. 10, pages 207-213. Esp. page 209, para 3; page 210, para 1.	3,19
Y	Stevens et al., "Xanthohumol and Related Prenylflavonoids from Hops and Beer: to your good health", Phytochemistry (May 2004) vol. 65, page 1317 (Abstract only).	9,25

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

26 November 2007 (26.1.2007)

Date of mailing of the international search report

20 DEC 2007

Name and mailing address of the ISA/US

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